

# REACT STYLE AND STATE

FULL STACK SKILLS BOOTCAMP

# UNDERSTANDING STYLING, ASSETS, AND STATE IN REACT

## ■ Lesson Overview:

■ In this lesson, we will be introduced to:

1. Methods of applying style in React
2. Using images and other assets
3. React Hooks, `useEffect` and `useState`

# DIFFERENT WAYS OF APPLYING STYLE IN REACT

- **Inline Styles:**  
Defined directly in JSX elements as an object.
- **Pros:**  
Quick for small, dynamic styles.
- **Cons:**  
Difficult to manage for larger, complex styles.

```
<div style={{ color: "blue", fontSize: "20px" }}>Hello World</div>
```

# DIFFERENT WAYS OF APPLYING STYLE IN REACT

- **CSS Stylesheets:**

Traditional CSS files imported into the component.

- **Pros:**

Familiar and simple to maintain.

- **Cons:**

Styles are globally scoped by default.

```
import './App.css';
```

# DIFFERENT WAYS OF APPLYING STYLE IN REACT

- **CSS Modules:**  
CSS files that are locally scoped to components (e.g., App.module.css).
- **Pros:**  
Avoids global scope conflicts.
- **Cons:**  
Requires additional setup and syntax.

```
import styles from "./App.module.css";  
<div className={styles.container}>Hello World</div>
```

# DIFFERENT WAYS OF APPLYING STYLE IN REACT

- **Styled Components:**  
Styled-components library for writing CSS-in-JS.
- **Pros:**  
Dynamic and component-scoped styling.
- **Cons:**  
Increases bundle size and adds complexity.

Demo...

```
import styled from "styled-components";  
const Button = styled.button`background: blue; color: white;`;
```

# IMPORTING IMAGES AND ASSETS

- **Importing Images:**

Import images directly in JavaScript

- **Using public Folder:**

Place assets in the public folder and reference them

- **When to Use Which:**

- **src Imports:** Best for component-specific images.
- **public Folder:** Use for images needed globally across the app.

- **Adding Other Assets:**

Fonts, icons, and external resources can be imported similarly or linked in index.html.

Demo...

```
import logo from './logo.png';  
<img src={logo} alt="Logo" />
```

```

```

# REACT HOOKS: USESTATE

## ■ What is useState?

A React Hook for adding state to functional components.

## • Using useState:

useState returns a state variable and a function to update it.

Allows reactivity, updating the UI when state changes.

```
import { useState } from 'react';
function Counter() {
  const [count, setCount] = useState(0);
  return (
    <div>
      <p>Count: {count}</p>
      <button onClick={() => setCount(count + 1)}>Increment</button>
    </div>
  );
}
```



# REACT HOOKS: USEEFFECT

## ■ What is useEffect?

A hook for performing side effects in functional components, such as fetching data, setting up subscriptions, or manually updating the DOM.

## ■ Using useEffect:

The second argument, [], is a dependency array. When empty, the effect runs only once after the initial render.

Effects can be re-run when dependencies in the array change.

```
import { useEffect, useState } from 'react';  
function App() {  
  const [data, setData] = useState(null);  
  useEffect(() => {  
    fetchData().then(response => setData(response));  
  }, []);  
  return <div>{data ? data : "Loading..."}</div>;  
}
```

# CONCLUSION

## ■ Styling Options:

- Inline, CSS Stylesheets, CSS Modules, Styled Components.

## ■ Assets:

- How to import images and assets, and when to use src vs. public folder.

## ■ State and Side Effects:

- useState for managing component state.
- useEffect for side effects and data fetching.

QUESTIONS?